Special Issue

Gas Sensor Based on Carbon Nanomaterials

Message from the Guest Editor

Gas sensors are attracting great interest due to their widespread applications in environmental monitoring, industry, space exploration, pharmaceutics, and biomedicine. This Special Issue titled “Gas Sensor Based on Carbon Nanomaterials” is related to the fabrication, characterization, and gas sensing capabilities of carbon-based nanomaterials including activated carbon, carbon-based quantum dots, carbon nanotubes, graphene, graphitic carbon nitrite, and carbon nanofibers. In this Special Issue, original research articles and reviews confronting all types of carbon-based nanomaterials for gas sensing applications such as chemiresistive, electrochemical, fluorescence, and optical sensors fall within the scope of this Special Issue. Research areas may include (but not limited to) the following:

- Synthesis of and characterization of carbon-based nanomaterials materials including activated carbon, carbon-based quantum dots, carbon nanotubes, graphene, graphitic carbon nitrite, and carbon nanofibers for gas sensing applications;
- Simulation, modeling, and gas sensing mechanism of carbon-based nanomaterials.

Look forward to receiving your contributions.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

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